

Fig. A

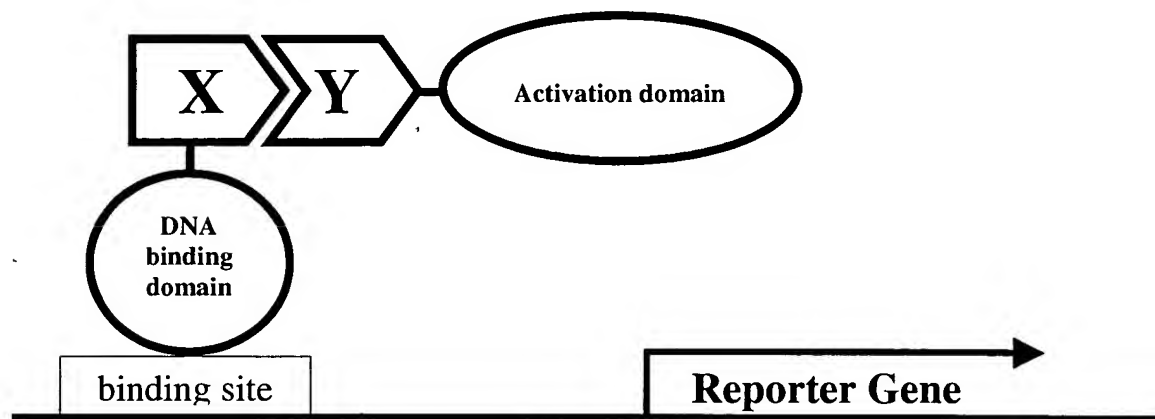


Fig. B

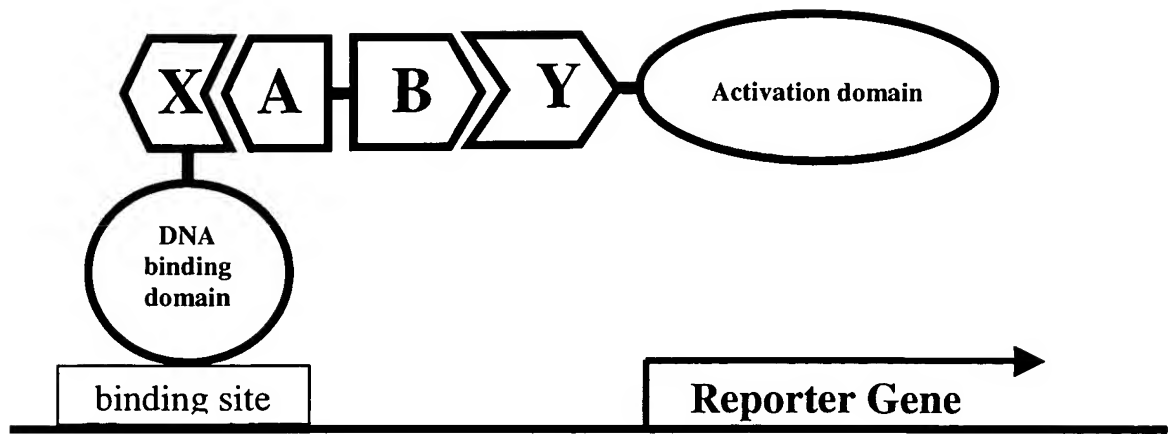


Fig. C

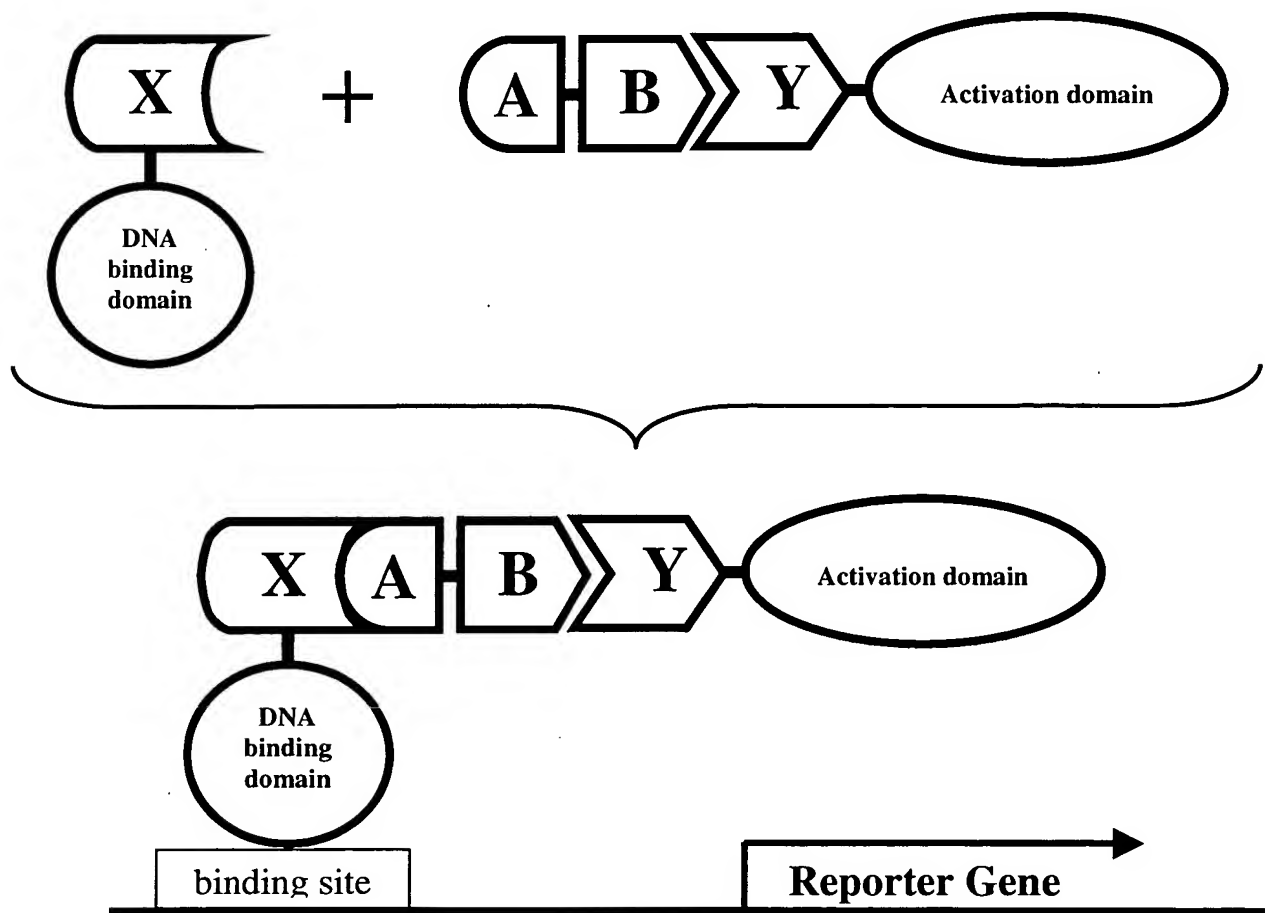


Fig. D

Figure 1. Two-hybrid system

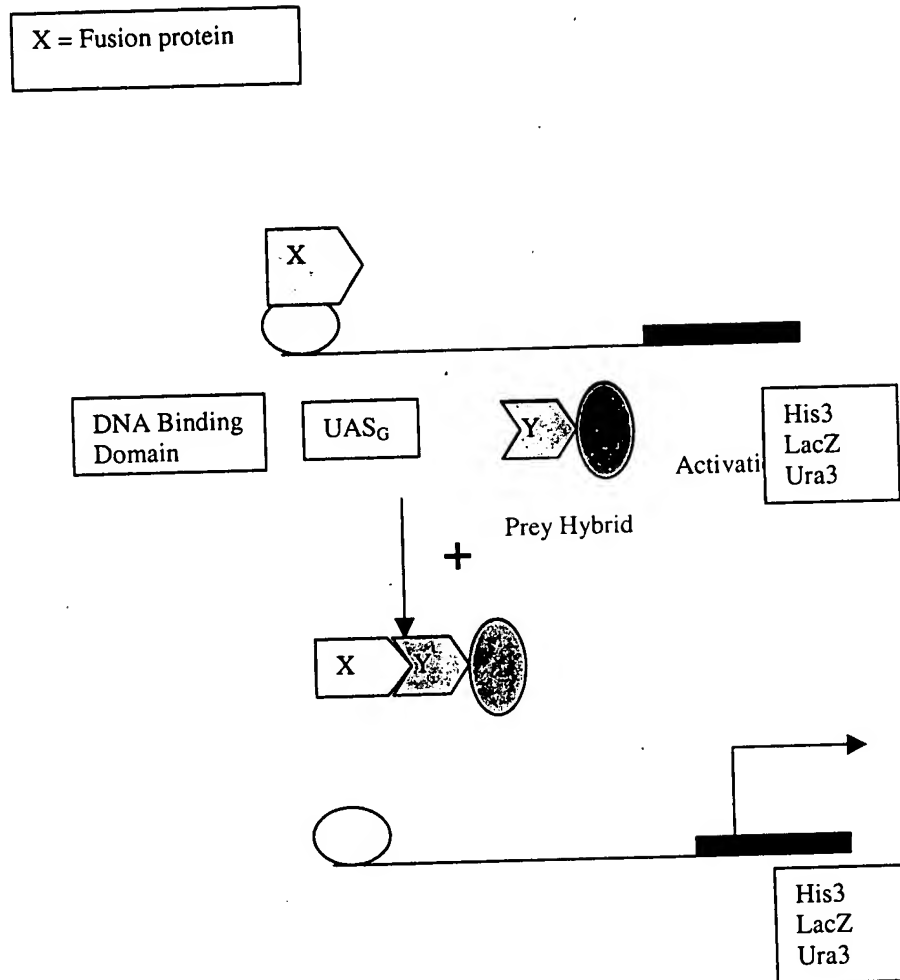


Figure. 2. A schematic representation of the Modified three-hybrid system (chemically hybrid system).

X = High specificity receptor for irreversible binding of ligand (A)

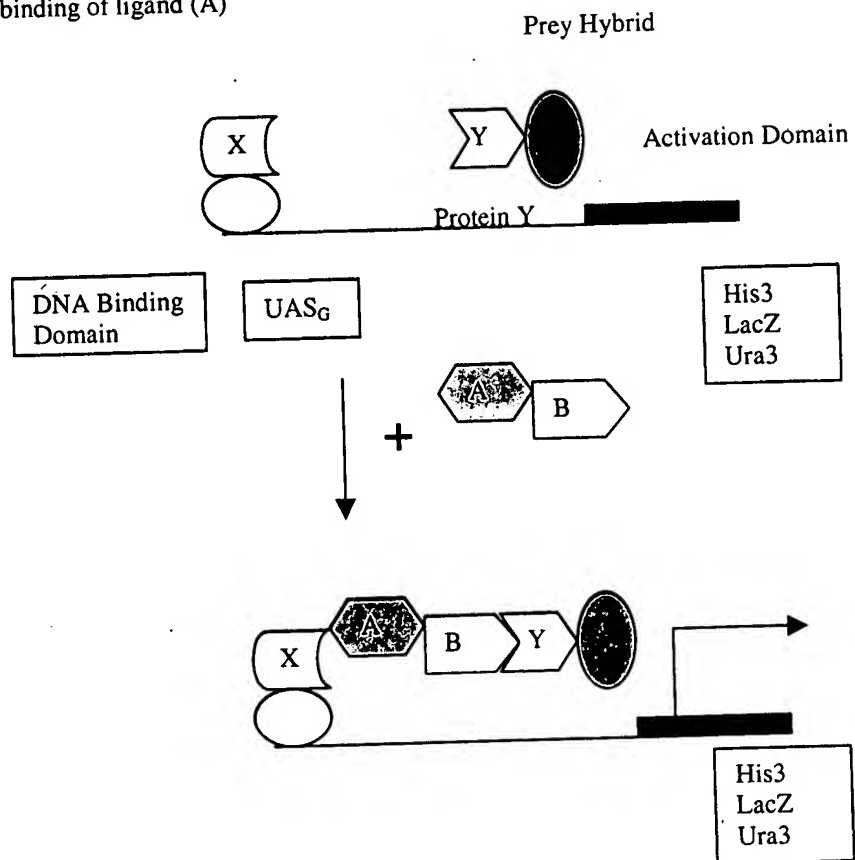
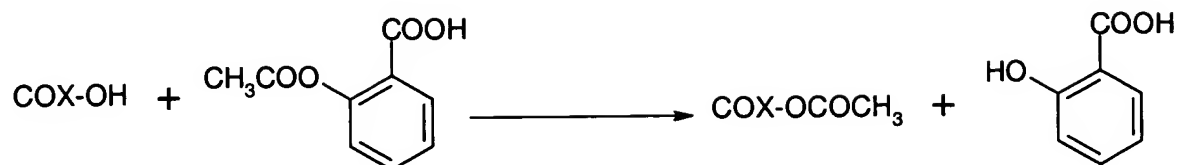
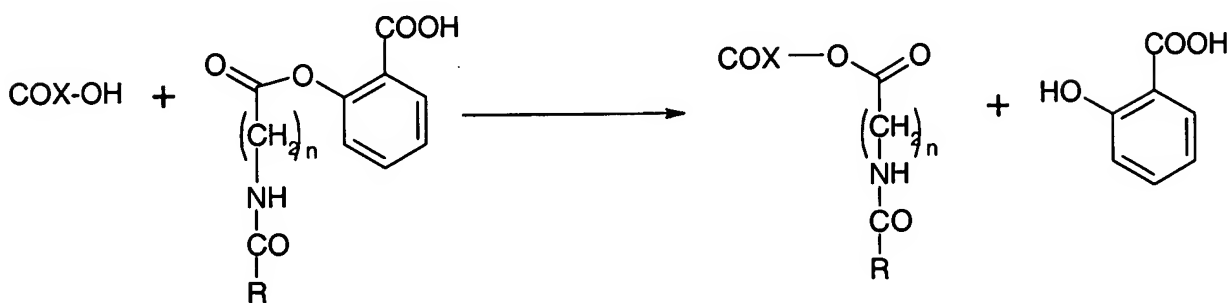


Figure 3: Affinity Labeling Agents**Cox-Aspirin Mechanism**

Example of covalent bonding of ligand to the target (Cox-Aspirin mechanism)



R = Dexamethasone; FK-506 or combinatorial compounds

n = 0-20

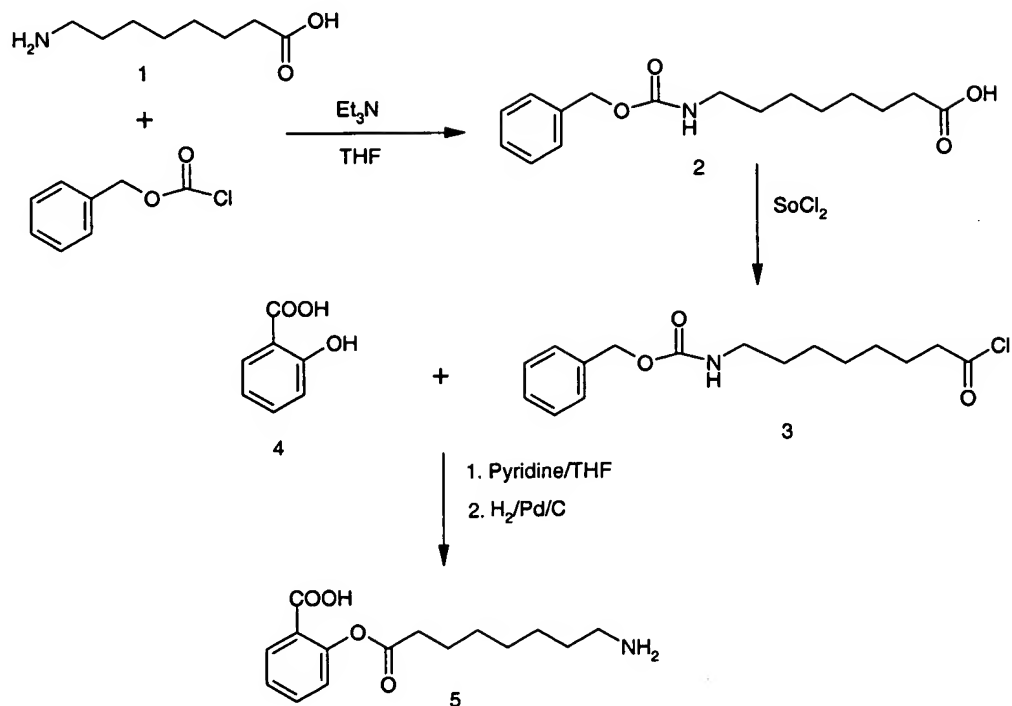
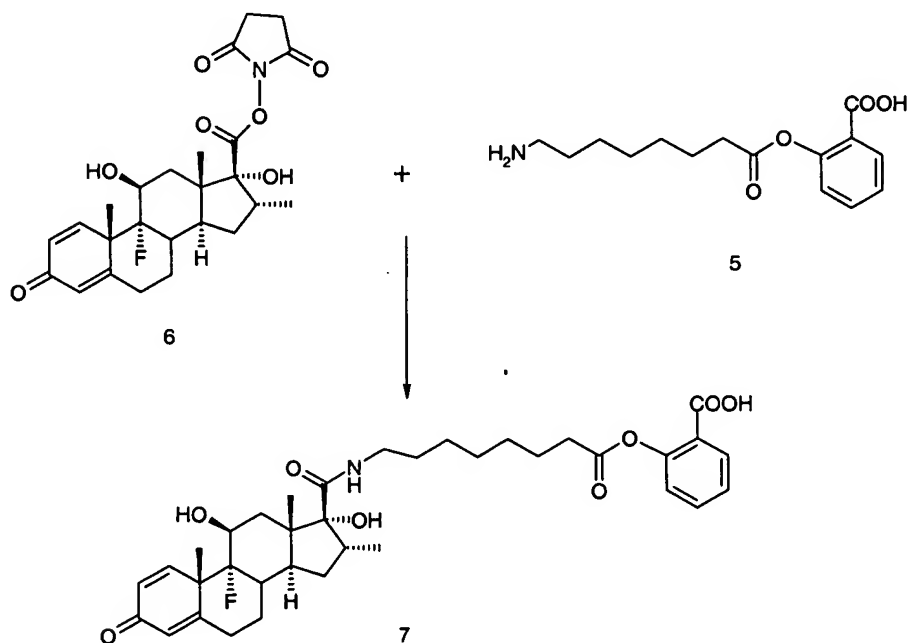
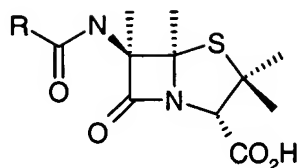
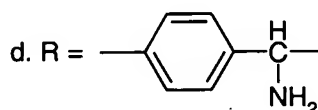
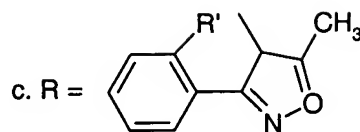
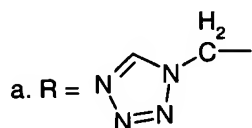
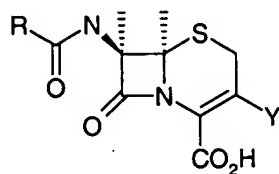
Figure 4: Affinity Labeling Agents**Synthesis of aminoalkyl salicylate****Coupling of aminoalkyl salicyclate to dexamethasone**

Figure 5: Affinity Labeling Agents

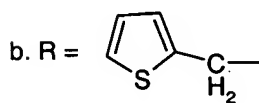
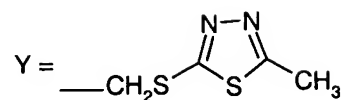
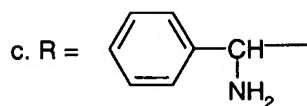
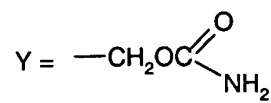
5a. Penicillins

a. R = PhCH₂-b. R = PhOCH₂-

5b. Cephalosporins/cephamycins

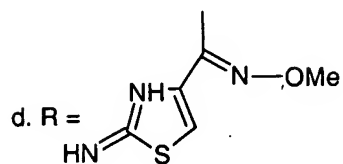


X = H

X = OCH₃

X = H

Y = Cl



X = H

Y = H

Figure 6: Mechanism based-inhibitors

Figure 6a. Vigabatrin

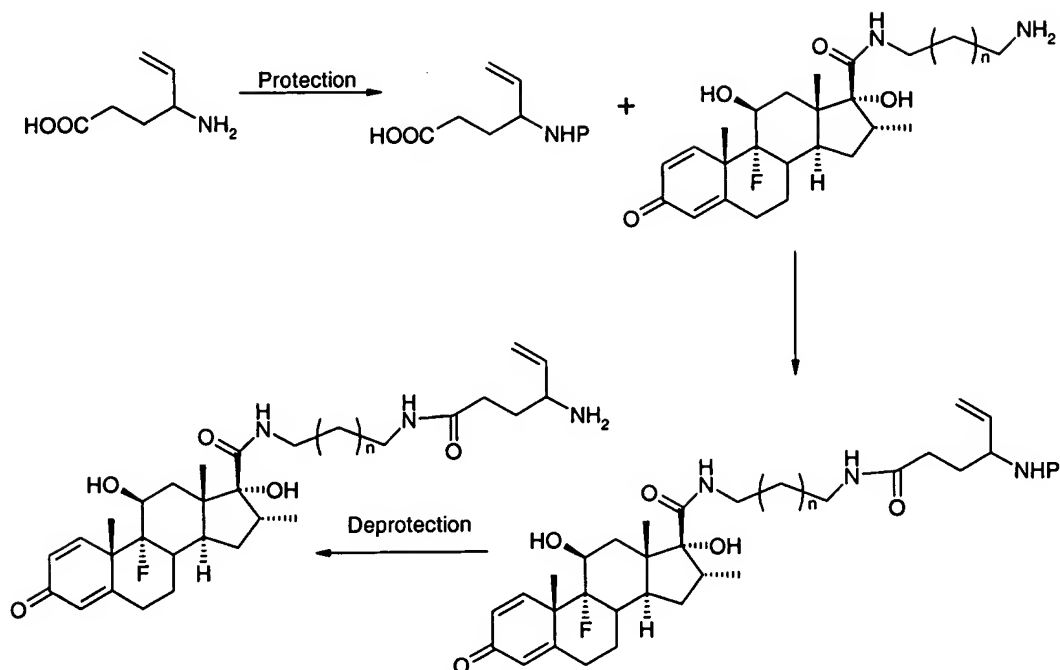


Figure 6b. Eflornithine

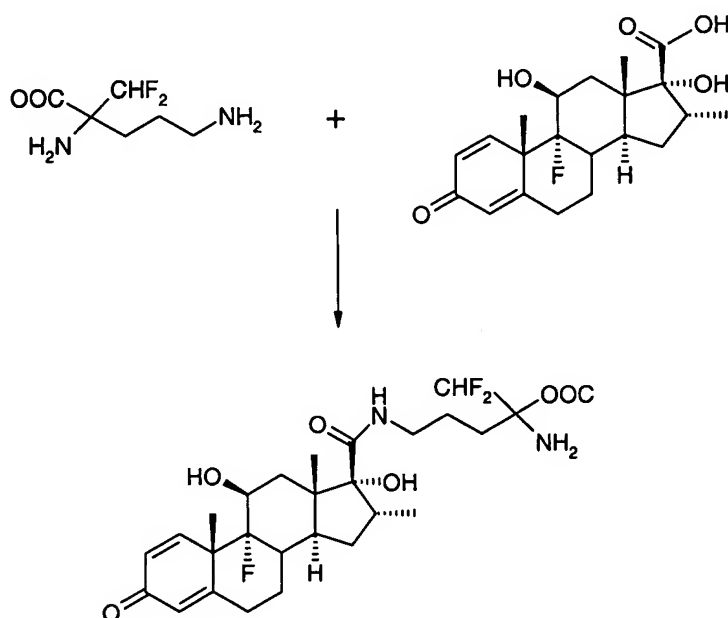
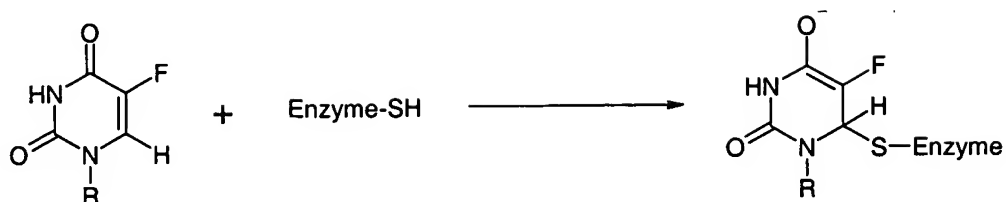
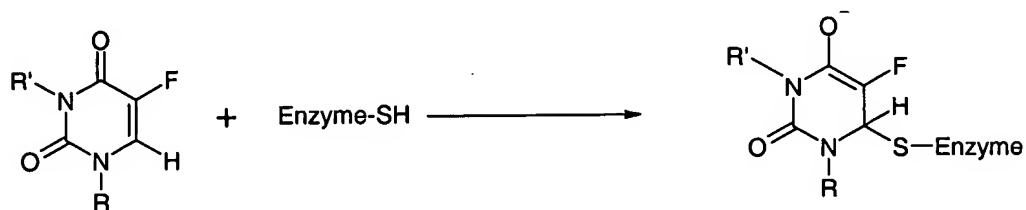


Figure 6c: Fluorouracil

Example of covalent bonding of ligand to the target (mechanism-based inhibitor)



R' = dexamethasone, FK-506 or combinatorial compounds

Figure 7: Covalent labeling of recombinant protein in living cells with fluorescein analogs

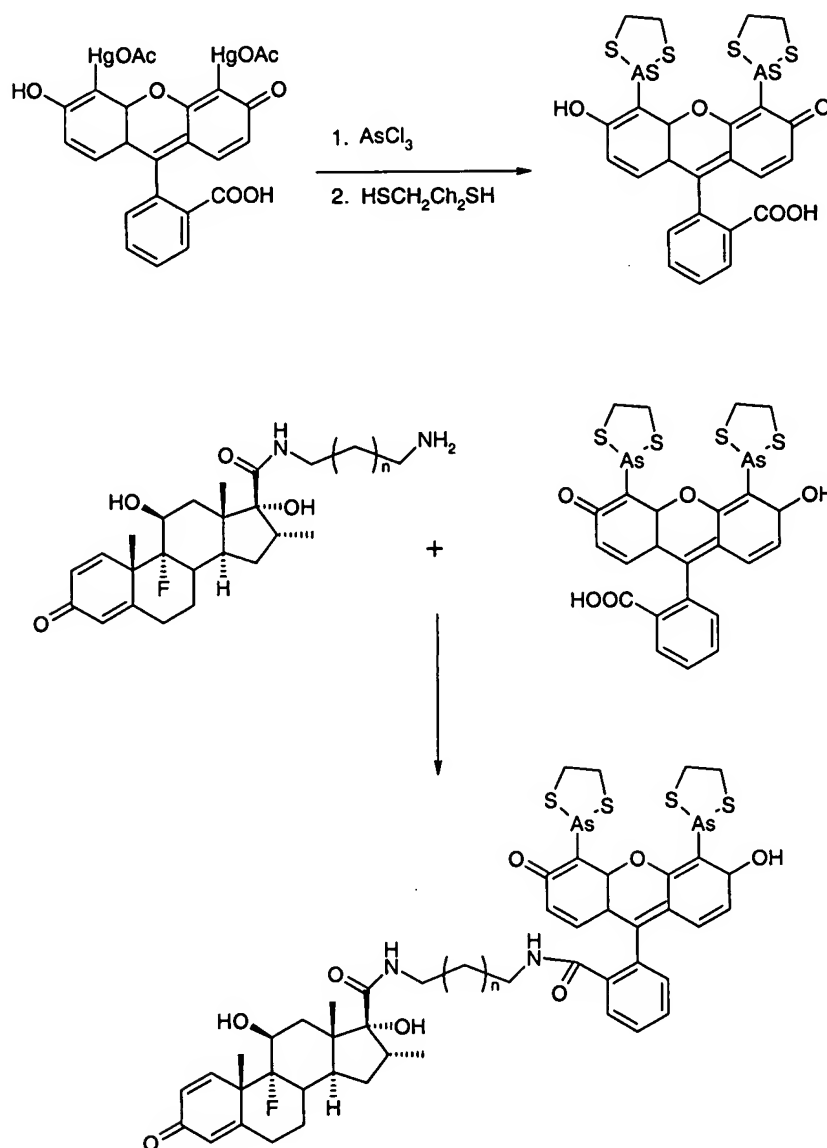
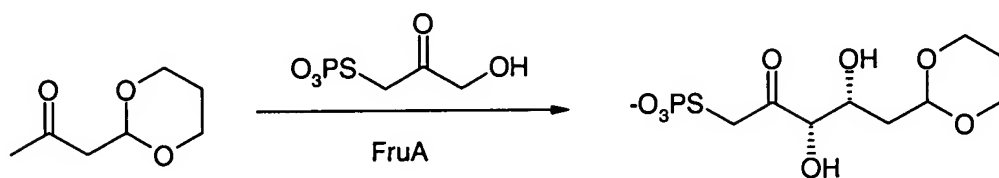
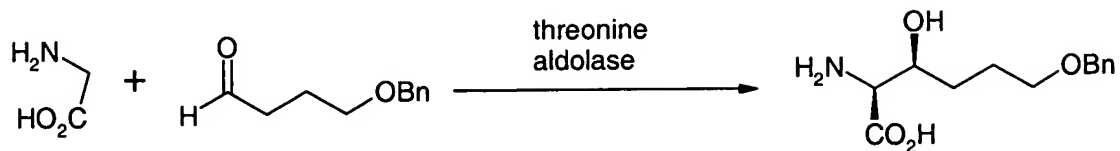


Figure 8: Biocatalyses: enzyme mediated c-c bond formation



Fru A = fructose 1,6-bisphosphate aldolase